

A DIGITAL IMPLEMENTATION OF MULTI-CHANNEL DEMODULATORS

ABSTRACT OF THE DISCLOSURE

A method and circuitry for implementing digital multi-channel demodulation
5 circuits. More particularly, embodiments of the present invention provide a digital multi-
channel demodulator circuit. The demodulator includes a frequency-block down-converter
that receives a multi-channel analog RF signal and shifts the multi-channel analog RF signal
to a lower frequency band. An ADC receives the multi-channel analog RF signal from the
frequency-block down-converter and converts the multi-channel analog RF signal to a multi-
10 channel digital RF signal. A digital channel demultiplexer receives the multi-channel digital
RF signal from the ADC and demultiplexes the multi-channel digital RF signal into separate
digital RF channels.

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